

SB 62 PROJECT REPORT
DECEMBER 2007

Project	Grant Amount	Project Summary
Humboldt River Basin Water Authority	\$120,000.00	Assemble existing information into a water resources data base in support of threats to water rights. Develop recommendations for collection of additional necessary data. Develop a public information program. Deliver a summary report for each county describing available forecast of economic/demographic conditions and related water.
Esmeralda County	\$16,245.85	<p>The project was planned to conduct a physical reconnaissance of the County's present water uses and existing water rights and develop a strategy to enhance and protect the County's water rights to ensure present and future water demands can be met as well as preparing a Water Rights Management Plan. All water rights identified in four hydrographic basins were reviewed. A field reconnaissance trip was conducted with the State Engineers office to physically site in the locations for the point of diversion for water rights and ascertain the manner by which the appropriated water is being exercised.</p> <p>Progress Report, June 2007: The Esmeralda County Water Rights Plan is complete and available electronically on NDEP's website at http://ndep.nv.gov/bffwp/esmeralda%20county_sb62.htm (contact: Michelle Stamates at 775.687.9331 or mstamate@ndep.nv.gov).</p>
Town of Tonopah	\$11,250.00	<p>Assemble all active surface and groundwater rights for Ralston Valley Hydrographic Basin No. 141, Big Smokey -- Tonopah Flat Hydrographic Basin No. 137, and Alkali Spring Valley Hydrographic Basin No. 142.</p> <p>Progress Report, April 2007: In an effort to reduce costs, town employees gathered information from the Nye County Courthouse records for this project. The project is estimated to be approximately 50% complete at this time. A progress meeting will be held 4/17/2007 with the Tonopah Public Utilities and Town Officials to review the information gathered to date.</p>
Churchill County	\$36,500.00	<p>Update of the County's Water Resources Plan for surface and groundwater resources. Review of all county records relating to water resource requirements, both existing and projected. Update of the water resource ownership in the County.</p> <p>Progress Report, June 2007: The Churchill County Water Resources Plan update is complete and available on the County's website at http://www.churchillcounty.org/planning/waterplan.php and is linked to NDEP's website at http://ndep.nv.gov/bffwp/sb62.htm (contact: Michelle Stamates at 775.687.9331 or mstamate@ndep.nv.gov).</p>
Eureka County	\$120,000.00	<p>Compile and develop a database of existing water-level data and supporting hydrologic information as the basis for developing a baseline of water-level measurements for Nevada's Central Hydrographic Region. Create maps showing a spatial distribution of existing water level data.</p> <p>Progress Report, May 2007: In progress: 1) mapping discharge areas and verifying ET rates; and 2) drilling, strat. sections, and water level measurements. Awaiting final deliverables prior to making final payment.</p>

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Gerlach	\$92,833.42	<p>A database of spring flow and quality and a groundwater model will be developed to determine any changes that might result from the proposed development in the basin that might adversely affects the two springs (Garden and Railroad Springs) that provide water to Gerlach.</p> <p>Progress Report, January 2007: Data loggers & flow meters have been installed at springs; Monitoring of water level and discharge rate from the springs is currently in progress and will be used in calibration of the groundwater model.</p>
LVVWD – Kyle Canyon	\$27,184.72	<p>Install 100 Permalog units for the detection of subsurface leaks and acquisition of a Patroller unit for data collection. This system will allow operators to find and repair leaks, protecting millions of gallons of water previously lost to the system.</p> <p>Progress Report, December 2006: 30 leak detection units have been installed in the Rainbow subdivision. The balance of the work will be completed after the product has been proven suitable to the area's winter conditions. The remaining work should be completed by summer 2007.</p>
City of Fernley	\$38,680.59	<p>Reconcile all past and future mapping difficulties by attempting to develop a new GIS map of all Truckee Diversion surface water rights within the City of Fernley.</p> <p>Progress Report, June 2007: Data on all deeds relating to water rights transfers to the City of Fernley have been obtained and included in a database. Initial mapping of both sections 10 and 13 are in progress.</p>
Virgin Valley Water District	\$116,041.77	<p>Analyze water quality information from throughout the watershed region to develop a conceptual model of groundwater flow, mixing and hydrologic connection through naturally occurring chemical tracers, and develop a steady-state representation of the predevelopment conditions of the regional groundwater flow systems utilizing modifications of previous models to develop a comprehensive numerical model.</p>
White Pine County	\$116,041.77	<p>Update information (including: hydrogeologic framework, groundwater hydrology, and regional groundwater flow system) on County's water resources and update the Water Resources Plan to assist in identifying potential water use and needs based on scenarios for growth and development.</p> <p>Progress Report, June 2007: A draft of the County's Water Resources Plan has been produced and is now in review.</p>
LVVWD – Searchlight	\$150,000.00	<p>Drill and develop 4 new monitoring wells to better understand the groundwater resource and groundwater quality in Paiute Valley and the Eldorado Valley Basins. One of the 4 wells will be funded by this grant.</p> <p>Progress Report, Dec 2006: LVVWD is evaluating site locations in Piute Valley for potential monitoring wells. The project schedule includes an Environmental Assessment and rights-of-way by February 2008; Bidding completed by June 2008; and Monitoring wells completed by December 2008.</p>

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Topaz Ranch Estates	\$5221.88	<p>Identification and mapping of proposed point of use/place of diversion for the existing 9 water rights permits.</p> <p>Progress Report, Sep 2007: The GID was awaiting final easement on the new well to begin this project. The easement was finalized in August 2007.</p>
Central Nevada Regional Water Authority	\$150,000.00	<p>Compile and document the baseline information required to determine long-term changes in groundwater levels in the Central Hydrographic Region (including: Churchill, Elko, Esmeralda, Eureka, Lander, Nye, & White Pine counties) in order to evaluate the sustainability of present groundwater supplies secured under existing water rights, analyze the impacts of future development, and support future actions by local governments.</p> <p>Progress Report, April 2007: Completed to date: 1) a spreadsheet containing water-level data, supporting database attributes and data-quality information; 2) maps showing spatial distribution of water-level data; and 3) analysis of data gaps. In progress: 1) summary report that documents methods and findings and identifies areas needing additional new water-level measurements; and 2) modifications and expansions of NSWRF Facilities Map application. A last step includes the development of a website.</p>

